

IN THE CLAIMS:

1. (currently amended) A pressure sensor system
suitable for HVAC airflow control applications comprising:

- a) a simple probe tube located in an area of low turbulence, high
velocity airflow of the HVAC airflow;
- b) the simple probe tube connected to a pressure sensor
transducer; and
- c) whereby the signal from the transducer can be used to monitor
the airflow of the HVAC application; and
- d) the pressure sensor system having no orifice plates or other
means inducing significant parasitic air flow losses.

2. (original) The pressure sensor system of Claim 1
wherein the pressure sensor transducer is connected to a variable speed motor
controller for monitoring and controlling the HVAC airflow.

3. (original) The pressure sensor system of Claim 1
wherein the variable speed motor controller is connected to a blower motor for
controlling the HVAC airflow.

4. (original) The pressure sensor system of Claim 1 wherein the low turbulence, high velocity airflow area is a flow ring surrounding a blower motor.

5. (original) The pressure sensor system of Claim 4 wherein the blower motor is a variable speed blower motor.

6. (original) The pressure sensor system of Claim 1 wherein the pressure sensor transducer is a differential pressure sensor.

7. (original) The pressure sensor system of Claim 6 wherein the pressure sensor transducer is an electronic pressure sensor.

8. (original) The pressure sensor system of Claim 1 wherein the pressure sensor transducer is an electronic pressure sensor.

9. (original) The pressure sensor system of Claim 6 further comprising a second tube connected at a second side of the pressure sensor for a reference pressure.

10. (original) The pressure sensor system of Claim 4 wherein the simple probe tube is part of an assembly comprising a clip for attachment of the simple probe tube to an inside surface of the flow ring.

11. (original) The pressure sensor system of Claim 2 wherein the HVAC airflow is monitored and controlled directly from the pressure sensor transducer.

12. (original) The pressure sensor system of Claim 2 wherein the HVAC airflow is monitored and controlled from the pressure sensor transducer and in conjunction with other data.

13. (original) The pressure sensor system of Claim 4 wherein the flow ring has the highest velocity in the HVAC airflow.